incubator for conducting purging gases from outside said incubator into said incubator chamber, humidifying means in said incubator chamber for humidifying said gases and said incubator chamber, said hollow fiber purging tube means being in intimate contact with said humidifying means, walls of said hollow fiber purging tube means being suitably porous to permit transmission of humidity from said humidifying means to inside walls of said hollow fiber purging tube means thereby to humidify said gases passing therethrough, and means for attaching said miniature incubator to the stage motion controls of a microscope stage.

**2**. A miniature biological incubator for light microscopes as claimed in claim **1**, in which said means for humidifying said walls of said fiber tube comprises at least one water-soaked pad located in said incubator chamber and surrounding said hollow fiber tube, said at least one pad being located in intimate contact with said hollow fiber tube.

**3**. A miniature biological incubator for light microscopes as claimed in claim **1**, in which said thermal means comprises an electrical heater band located around said upward extending wall, said heater band being in intimate contact with said upward extending wall to permit conduction of heat from said heater band to said incubator and to contents therein, temperature of said heater being controlled by said temperature sensor means.

**4**. A miniature biological incubator for light microscopes as claimed in claim **1** in which said cover is supplied with handles, suitable for removing and replacing said cover on said upper edge of said wall, said means for providing viewing access to the top surface of said culture dish comprising said cover being manufactured of transparent material.

**5**. A miniature biological incubator for light microscopes as claimed in claim **1** in which said means for providing viewing access to the top surface of said culture dish comprises a viewing aperture located in said cover, directly above said culture dish, viewing aperature seal means being located between said cover and said top surface of said culture dish, peripherally around said viewing aperture, said cover being supplied with handles for removal of said cover from said upward extending wall, said means for providing viewing access to said under side of said culture dish comprising an aperture located in said platform directly below said culture dish.

**6**. A miniature biological incubator for light microscopes as claimed in claim **1** in which said means for locating said culture dish in said incubator comprises a recess in said platform suitable for nesting said culture dish therein, and at least one spring clip located on said platform, peripherally of said culture dish and biased against a side of said culture dish to maintain said culture dish firmly in said recess.

**7**. A miniature biological incubator for light microscopes as claimed in claim **1** in which said means for attaching said incubator to stage motion controls of a microscope stage comprises said base platform having a portion extending outward beyond said peripheral wall, said extending portion being supplied with at least one hole for fastening said incubator to said stage motion controls, and in which low friction slide strips are attached to the underside of said base platform, below said incubator.

**8**. A miniature biological incubator for light microscopes as claimed in claim **1** in which said thermal means comprises a warm air blower, located externally of said incubator, warm air from said warm air blower being directed toward and around said incubator and temperature of said warm air being controlled by said temperature sensor means.

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